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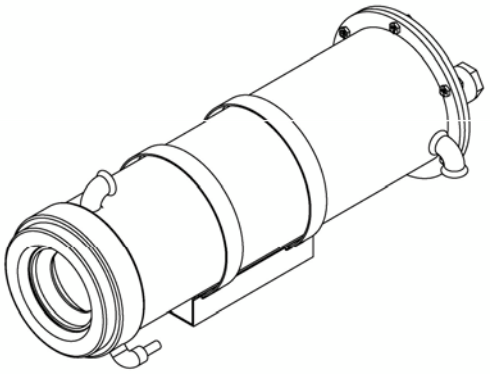
MANUAL BOOK



Veilux SVEX-HSF
Water Cooling
Dustproof Camera
Housing

1. Assembly

1. Please carefully read the Manual Book before your operation.

2. Please shut off before maintenance and repair.

3. Do not open camera body under too much humidity, otherwise the humid air getting into camera inside cannot easily vaporize because of good sealing of camera, and this humidity may damage camera spare parts and damage picture quality of camera.

4. Please connect cables correctly according to the Manual Book.

5. Keep clean of inner camera housing.

6. Please do not break up or reconstruct the product.

2. Environment Protection

„ Spare parts and components such as circuit board, electric components, plastic, sealing grease may be harmful to the environment. Make sure not to waste them and please collect and control these parts after the equipment is out of use, then ask the environmental authority to deal with them. In that case, it won't harm to the environment.

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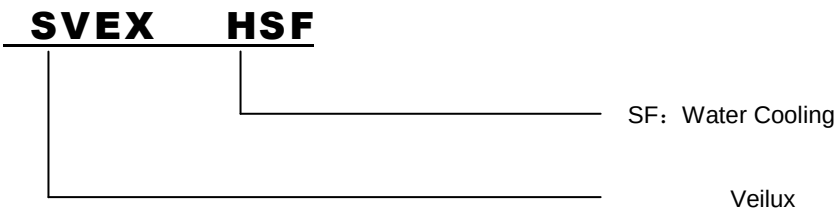
1. BRIEF

SVEX-HSF Water Cooling Camera Housing is designed for special environment. This product can be used under high temperature dusty conditions. Circulation of water can reduce the heat and air pressure can help clean the housing window. Both fixed zoom camera and zoom lens can be used in this housing for different applications. Tempered glass is strong and IP class is IP66.

All stainless steel material is used in this housing with good performance of corrosion proof and sealing ability. Double layers structure is designed in the housing with cooling water inside. Circulation of water can reduce the heat. Front end input tube can be used for pressurized air to clean the window. A drawer design inside the camera housing can fix the camera easily. Tightened nuts are used in the backward for fix the camera cable as well.

2. TECHNICAL DATA

2.1 Type code



2.2 Electric

Input voltage	220VAC, 50/60Hz
Input voltage range	±10%
Camera power	12VDC or 220VAC / 50Hz
Electric connection	2-core cable for camera power
	4-core cable for lens control
	Video cable for video signal output

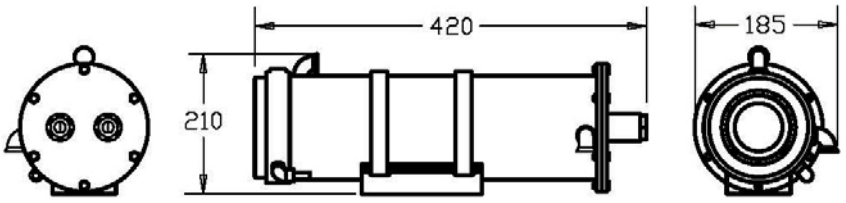
2.3 Mechanical

Material	Stainless 304
IP level	IP66
Inner dimension	260(L) x 90(H) x 70(W) mm
Viewing window	Thickness 5mm
Viewing window area	Φ60mm
Cooling water joint	inner diameter Φ13mm tube
Cooling water temperature	U+35℃
Cooling water pressure	＜0.3Mpa
Cooling water flow	$3m^3/h$
Distance between housing	7mm
Air input size	3/8”
Air input pressure	0.2Mpa
Weight	8.5kg
Weight with water	9.5kg
Shipping weight	10Kg
Cable outlet	2
Cable outlet size	G-3/4”
Mounting	swivel or fixed mounting bracket

2.4 Environmental

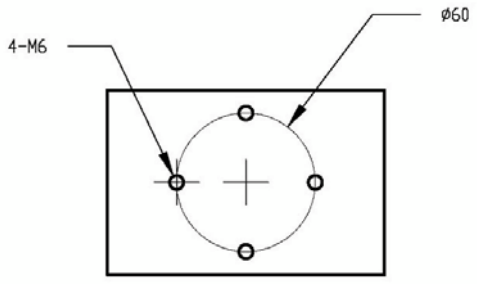
Air pressure	86～106KPa
Environment temperature	≤+250℃
Relative humidity	U95%RH (+25℃)

2.5 Dimension



P1. SVEX-HSF

2.6 Installation size

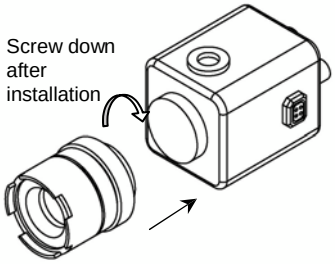


P2. Camera bottom fixing holes

3. INSTALLATION

3.1 Installation of camera and lens

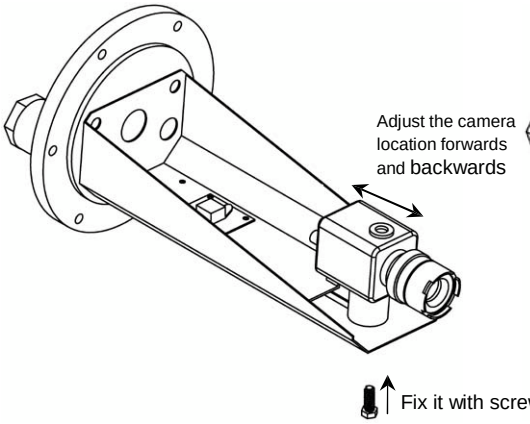
Before installation, please read the manual book carefully, to see if the CCD specification is accorded with the connection format;1/3 inch CCD camera could install 1/3 inch or 1/2 inch lens,1/2 inch CCD camera could only install 1/2 inch lens, if not, there will be dark corner at the edge of picture.



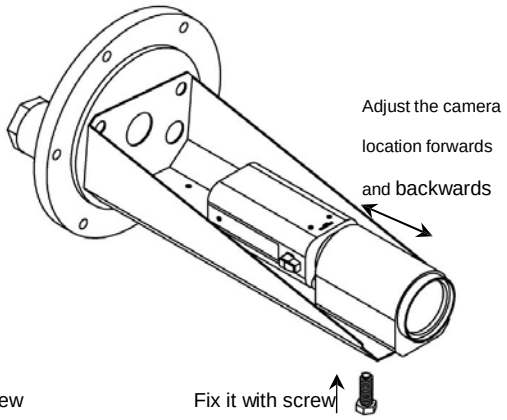
P3. Lens installation

After installation of lens and camera, adjust the back focus of camera; observe the definition of test card on the monitor.

Install the lens and camera on the drawer board of the camera housing, adjust its position .to ensure there is no dark corner on the edge of picture when it is put into the housing.



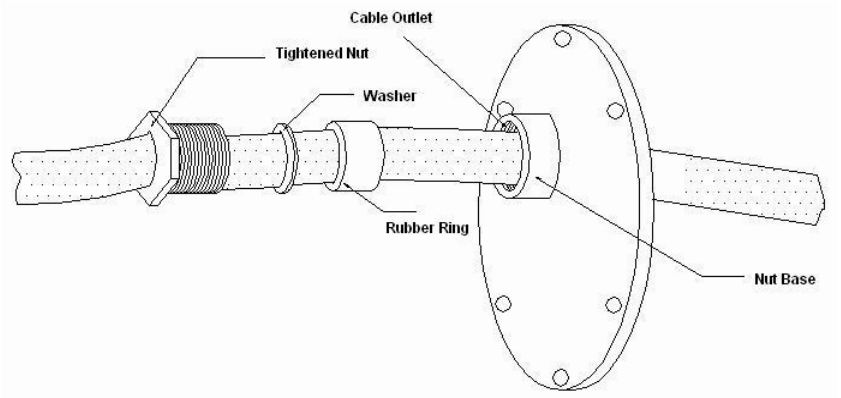
P4. Install camera and focus lens on the drawer board



P5. Install camera and zoom lens on the drawer board

3.2 Cable working

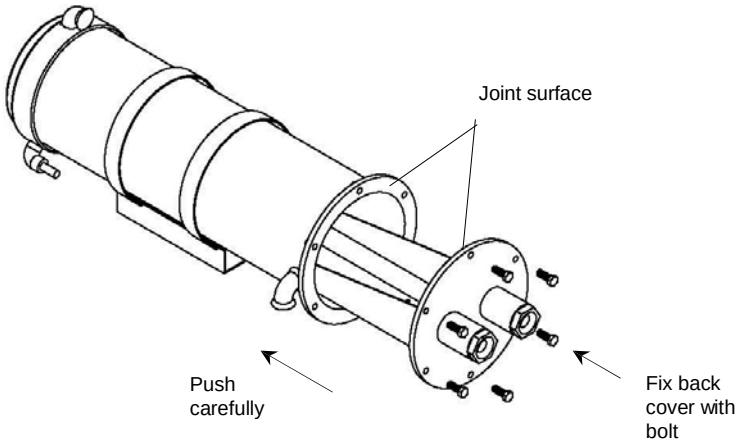
Install the cable as below diagram.



P6. Install cable

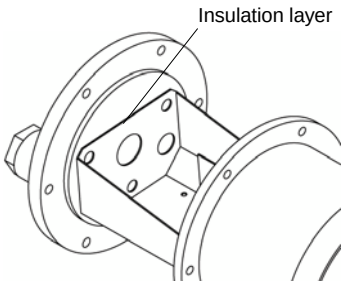
3.3 Camera housing installation

Pay attention to protecting the joint surface, see below drawing.



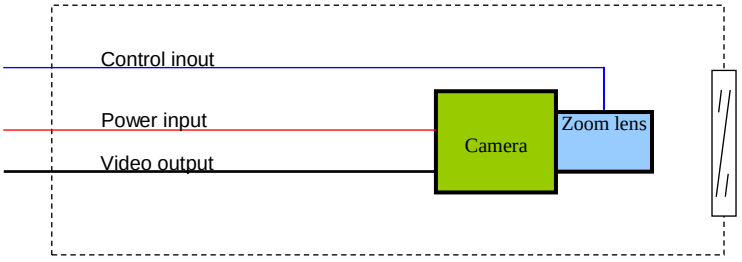
P7. Install the back cover carefully

There is insulated shim between the drawer board and back cover, if you need to take down, be carefully of its insulated performance; after finishing installation, and test the insulated resistance, which must be higher than 100 MΩ.



P8. Be careful of the insulated floor between back cover and drawer board

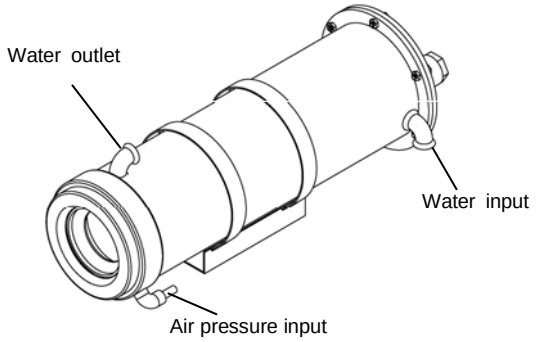
3.4 Inside structure



P9 Inside structure

3.5 Outer joint

Under high temperature and dusty area, the joints below can be used to reduce the temperature and remove the dust. Metal tube is necessary for connection.



P10 Joint connection

4. TROUBLE SHOOTING

Problems	Reason	Method	Note
No image	Power off	Change the fuse	Eliminate by yourself
		Check the connection	Eliminate by yourself
	Signal off	Check the connection	Eliminate by yourself
	Camera error	Change the camera	Contact with manufacturer
	Lens error	Change the lens	Contact with manufacturer

5. SHIPPING AND STORAGE

After package, without rain or snow fall directly to product, shipment could do by air or sea and store for one year under the environment of 0℃~+40℃, humidity < 90%.

6. ACCESSORIES INSTALLATION

10mm rubber sealing ring and bushing are installed in cable outlet. A desiccant and 1/8'' copper screw are provided as well.

7. QUALITY GUARANTEE

For any camera produced by Veilux, we promise a one year to repair warranty. During Guarantee period, we supply free service except following situations:

- User does not operate as manual book requires
- User un-install the whole product by themselves
- Lightning or Act of God

If there are additional agreements between Veilux and buyer, then agreements shall be strictly done

8. COMPANY COMITTMENT

- Veilux owns the final design changing and final specification rights and no responsibility to inform user.
- This manual book belongs to Veilux rights, without permits or any book inform, any company or private copy of whole or part of the book shall be prohibited.

802 GREENVIEW DR STE 200

GRAND PRAIRIE, TX. 75050

Website: www.veilux.net

E-mail: Sales@veilux.net

Phone # 1-800-510-6528